Z/I IMAGING

ImageStation 2000
A Product of Z/I Imaging

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Introducing the all new ImageStation 2000.

Built on the success of the ImageStation Z, our new workstation once again sets the standard for digital photogrammetric production. The ImageStation 2000 has been redesigned to further enhance imaging performance and operator comfort. Powered by dual Intel Pentium III processors and based on Microsoft's Windows NT$^{®}$ Operating system, our revolutionary ImageStation 2000 combines price, performance, and ergonomic design with a robust set of applications to meet the demands of the imaging and photogrammetric industries.

From its exclusive 28-inch monitor and precision digitizer to available applications built on our innovative ImagePipe™ software, ImageStation 2000 provides photogrammetrists with the following benefits and features:

- The ImageStation 2000 is tailored to the operator using the customizable table with electrically height adjustable digitizing and monitor surfaces. The monitor surface telescopes toward the operator allowing for rapid reconfiguration of the workspace for extraordinary comfort.

- Exclusive Hand-Held Controller offers comfortable freehand digitizing, fingertip menu selection, and roaming.

- Standard 19", 12U electronics enclosure allows for easy customization of the system. The host computer resides in a 5U chassis and offers:
  – Dual 866 MHz, 256 KB cache, Intel Pentium III processors
  – 512 MB of RAM
  – 18 GB system drive
  – 2-36 GB data drives

  The remaining 7U of rack space allows customers to configure the ImageStation 2000 to their specifications.

- The ImageStation 2000 is offered with dual or single 21" and 24" monitors, or with a single 28" monitor.

- Unparalleled image processing and display speed is provided.

Advanced 3D graphics

Intense 3D Wildcat 4110, AGP Pro, graphics accelerator provides the perfect hardware engine to support the ImagePipe's stereo roam capability. The 4110's 64 MB frame buffer has the horsepower necessary to support roaming at high resolutions in both interlaced and frame sequential stereo.

Production digital photogrammetry

Interoperable with previous ImageStations, ImageStation 2000 runs on Microsoft Windows NT and provides the familiar Windows look and feel. Our application suite boasts the most integrated workflow in photogrammetry, and the convenience of running Windows-compatible technical and office applications.

Natural stereo viewing

Our panoramic monitors add another dimension that helps make our stereo photogrammetric production system far superior to any other in the world. Offered in 28-inch and 24-inch sizes, these monitors elevate stereo viewing to a higher plane, displaying stereo imagery the way your eyes were meant to view it. Once you experience this natural viewing format, you will insist on seeing it again and again.
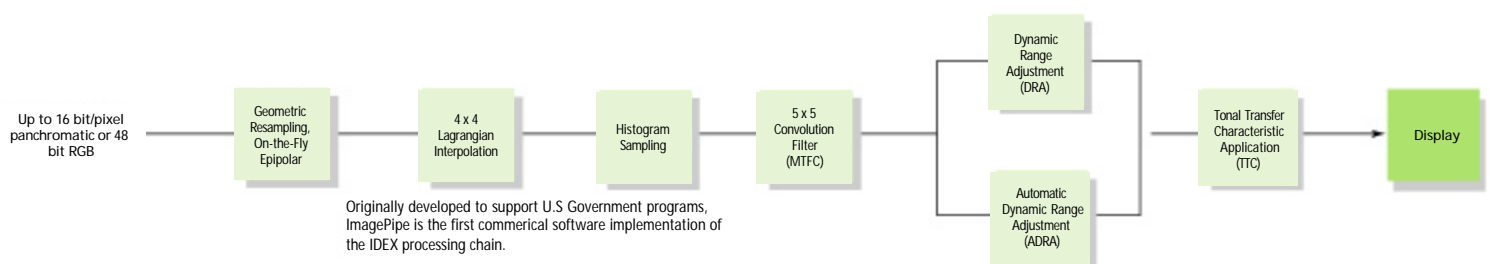

Industry's smoothest stereo roam

Our exclusive ImagePipe software enables the industry's smoothest stereo roam for easy digitizing and comfortable viewing. ImagePipe – combined with the multiprocessing power of ImageStation 2000 – eliminates stop-and-go image roam performance and consequential operator fatigue. This saves valuable time and significantly increases productivity.
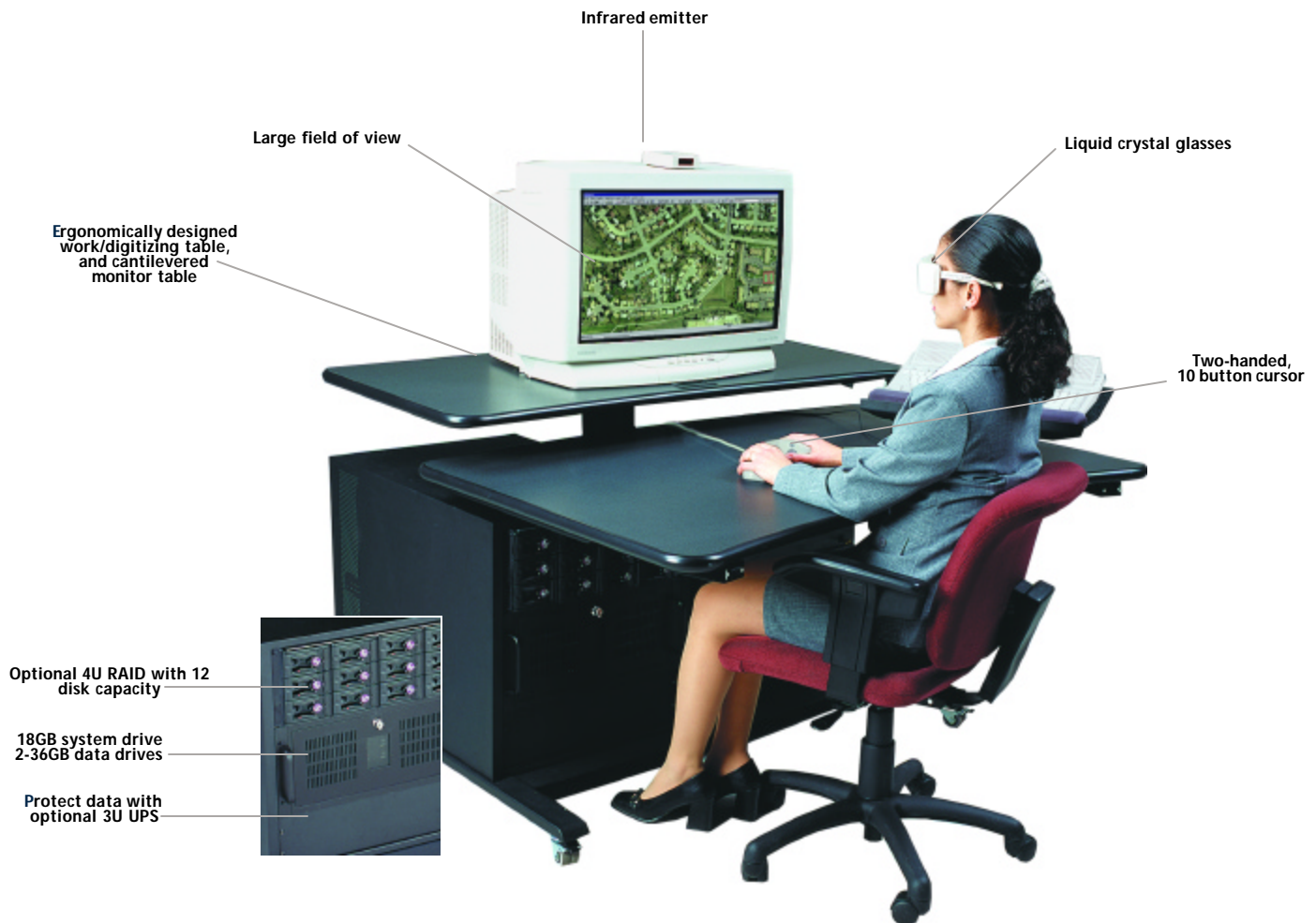
Smaller file sizes with JPEG compression

With software JPEG image compression, you can fit more projects on the ImageStation 2000 hard drives. Compressed files require far less disk space and, therefore, facilitate faster network transfers. From scanning film to archiving digital images, JPEG image compression streamlines all aspects of the production flow.

Up to 16 bit/pixel panchromatic or 48 bit RGB → Geometric Resampling, On-the-Fly Epipolar → 4 x 4 Lagrangian Interpolation → Histogram Sampling → 5 x 5 Convolution Filter (MTFC) → Dynamic Range Adjustment (DRA) / Automatic Dynamic Range Adjustment (ADRA) → Tonal Transfer Characteristic Application (TTC) → Display

Originally developed to support U.S Government programs, ImagePipe is the first commerical software implementation of the IDEX processing chain.

SETTING THE STANDARD FOR PHOTOGRAMMETRIC PRODUCTION SYSTEMS

- 28-inch and 24-inch panoramic monitors provide large field of view for stereo display.

- 90 gigabytes of standard disk storage provides unbelievable handling and storage of large image files.

- Additional capacity can be added using one or more of the three front accessible expansion bays.

- Infrared emitter allows synching of multiple glasses for group viewing environments such as training and supervision.

- Two-handed, 10-button cursor allows comfortable freehand digitizing, fingertip menu selection, and roaming.

- Ergonomically designed unit can be modified to fit any operator.

- Monitor surface height is electrically adjusted and can telescope toward user; working surface height is electrically adjusted.

- Symmetric multiprocessing (SMP) architecture of the ImageStation 2000 easily supports the computationally intensive task of image processing.

- Liquid crystal glasses ensure high-quality stereo viewing without strain. Because the free viewing system is not constrained by fixed optics, operator comfort is assured.

- Flexible 12U rack provides the ultimate in user-configurability.

- User-selected options include 4U RAID and 3U UPS.

Infrared emitter

Large field of view

Liquid crystal glasses

Ergonomically designed work/digitizing table, and cantilevered monitor table

Two-handed, 10 button cursor

Optional 4U RAID with 12 disk capacity

18GB system drive 2-36GB data drives

Protect data with optional 3U UPS

Faster workflow and higher accuracy

ImagePipe, our image display foundation software with scalable performance, provides an image display chain that runs faster as more processors are added or as the speed of the processors increases. The combined power of ImageStation 2000 hardware and ImagePipe software removes the burden of purchasing and maintaining custom image processing hardware.

With the capability to perform on-the-fly epipolar resampling, ImagePipe eliminates the need to batch epipolar resample images prior to display, which significantly reduces disk storage requirements and production times for any project. Also, ImagePipe's capability to process up to 16 bit-per-pixel imagery will allow the imaging professional to directly utilize imagery from the high-pixel-depth satellites of the future.

Specifications

Dual 866 MHz, 256 KB cache for each processor, Intel Pentium III processors

133 MHz Front Side Bus

512MB RAM, 133 MHz SDRAM, expandable to 1 GB and beyond

Intense3D Wildcat 4110, AGP Pro graphics accelerator, true-color, 2.5 megapixel maximum screen resolution

Monitor configurations:
- 28'' panoramic multi-sync, selectable resolutions from 640 x 480; max. recommended resolution 1,920 x 1,080
- 24'' panoramic multi-sync, selectable resolutions from 640 x 480; max. recommended resolution 1,920 x 1,080
- Single 21'' multi-sync, selectable resolutions from 640 x 480; max. recommended resolution 1,600 x 1,200
- Passive stereo option available for 21''

18.3 GB system drive, removable

Two 36.7 GB data drives, removable

3.5'', 1.44 MB floppy drive

DVD/CD-ROM drive

Three full-height, full-length, front-accessible expansion drive bays

10/100 BASE-TX Ethernet, Wake-on-LAN (WOL)

Windows 95-compatible keyboard

19'', 12U rack integrated into ergonomically designed unit that can be modified to fit any operator - monitor surface height is electrically adjusted and can telescope toward user; working surface height is electrically adjusted; keyboard tray frees work surface for work materials; exclusive hand-held controller provides ultimate user interface

CrystalEyes stereo system

Microsoft Windows NT 4.0 operating system

Built on a history of leading technology

Z/I Imaging is a joint venture corporation between Intergraph Corporation and Carl Zeiss. The new company combines the expertise of Carl Zeiss in the areas of optics and precision mechanics with Intergraph's considerable experience in workstation and software development. For more than 20 years, Intergraph lead the way in the evolution of the softcopy photogrammetric production system with three generations of digital production systems – InterMap Analytic, InterMap ImageStation, and ImageStation Z and ImageStation SSK.

Today, Z/I Imaging continues to lead the world in innovative technology with our new generation of technology including the Digital Modular Camera, ImageStation 2000, PhotoScan 2000, and TerraShare software family. Z/I Imaging is committed to providing our customers best-in-class imaging solutions from acquisition to exploitation to digital distribution. We are dedicated to continuing our role as the industry's premier provider of total customer service and committed to long-term mutually beneficial relationships.

For more information about Z/I Imaging, please contact us:

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